**Thermoanalytical Complet**

**Equipment:** Thermoanalytical Complet SETARAM SETSYS EVOLUTION 1750 (MSPfeifer QMG 700)

**No. of Equipment:** UACH15

**Responsible coordinator:** Dr. Petra Ecorchard

**Name of Institution:** Institute of Inorganic Chemistry of the AS CR, v.v.i.

**Address of Institution:** Husinec-Řež 1001, 250 68 Řež near Prague, Czech Republic

**E-mail:** ecorchard@iic.cas.cz

**Telephone:** +420 311236922

**Homepage:** http://cit.iic.cas.cz/

**Contact person (operator): Dr. Anna Vykydalová, Pavla Kurhajcová**

**E-mail:** vykydalova@iic.cas.cz, kurhajcova@iic.cas.cz

**Telephone:** 311236935

**Equipment Description**

**Description of equipment:**

System SETARAM for thermal analysis is using sophisticated system of QMS module connection so-called SuperSonic System in which gas molecules are accelerated and directed to the mass spectrometer. There is a MID (multiple ion detection) regime or Scan mode.

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP3**a,c-h, **WP4**a,b, **WP5**c, **WP6**a,c-f, **WP7**a-e,g-i, **WP8**a,c-f

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment**:

The fields in which the thermal processes of prepared materials is a point of interest.

**Please, specify the secondary research topics connected with equipment**:

**Keywords describing research area:**

Differential Thermal Analysis, Thermogravimetry, Mass Spectrometry

**Competence**

**Relevance for applied and industrial research:**

High-quality materials characterization to support preparation of perspective novel materials in large scale production (applied and industrial research).

**Relevance for fundamental studies:**

Detailed thermal analysis of prepared materials.